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## Patent Abstracts of Japan

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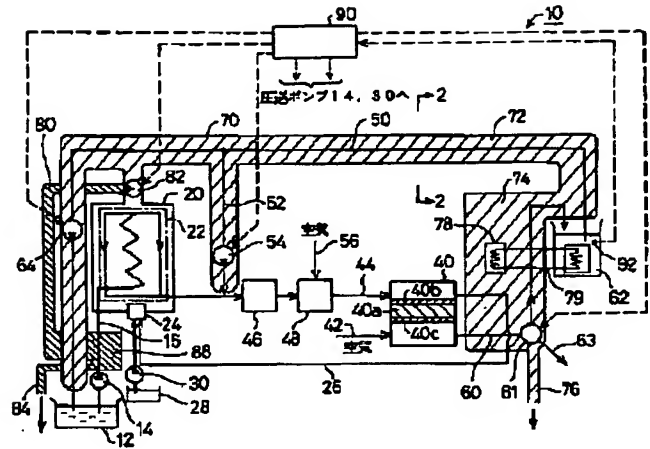
APPLICATION DATE : 31-03-95  
APPLICATION NUMBER : 07100311

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INVENTOR : TAKUMI KOUJI;

INT.CL. : H01M 8/04 H01M 8/06

TITLE : FUEL CELL SYSTEM



ABSTRACT : PURPOSE: To enhance startability of a fuel cell system having a fuel cell.

CONSTITUTION: A fuel cell system 10 is provided with an exhaust gas introducing passage 70 composed of a generating water circulating pipe line 50 being a pipe line when generating water of a generating water storage tank 62 is reused, an exhaust gas introducing passage part 72 to surround a branch pipe line 52 and an exhaust gas introducing storage chamber part 74 formed as an area containing a generating water discharge pipe line 60 to discharge the generating water outside from a fuel cell 40. A heat exchanger 78 is provided over these exhaust gas introducing storage chamber part 74 and generating water storage tank 62. When the generating water is frozen or there is the possibility of freezing in a water system of the generating water in an operation stopping period at the beginning of operation of the system, exhaust gas generated by combustion of methanol in a heater 24 of a reformer 20 is introduced to the exhaust gas introducing passage 70. Therefore, heat energy of the exhaust gas is given to the frozen generating water in the generating water circulating pipe line 50 or the like.

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